

LAKE MANAGEMENT PLANS

Water: Long Lake

Management Type: Trout Only

Location: Near the town of Tonasket, WA, Section 13, T36N and R29E in Okanogan County.

Size: 14.3 acres, 29 feet maximum depth, 203 acre-feet

Water Source: subsurface flow

Outflow: none

Management History: Since its inception, this fishery has been managed as a smaller lake trout production fishery, owing to its excellent productivity and easy boat access. Yearling trout have always averaged 11"-12" owing to the abundant food base. The lake opens on the last Saturday in April and closes Sept 30th.

Due to the illegal planting of spiny ray fishes (sunfish), fingerling rainbow plants have produced an inferior yearling both in size and robustness. As can be seen in the following table, the size of the rainbows has fluctuated dramatically over the past few years.

Year	Average Length/Yearling
2003	11"
2005	8"
2006	9"

Current Management Objectives:

Continue to manage this lake for a trout only fishery. Provide at least four yearling rainbows and one carryover rainbow trout per angler trip for up to 1,000 angler trips per season.

(1) Fishery Objectives:

<u>Species</u>	<u>Type</u>	<u>Category</u>	<u>Number of Fish</u>		<u>Avg. Size</u>	<u>Exploitation</u>
			<u>/hour</u>	<u>/Angler</u>		<u>Rate</u>
Rainbow	Prod	Standard	2-3	4+	12 inches	80% 1-yr-olds
		Fishery		1+	16+ inches	20% 2+-yr-olds

(2) Angler use objective (# angler days): Season – 1,000 +

vb (3) Stocking Objectives:

<u>Lake</u>	<u>Species</u>	<u>Number of Trout Stocked</u>			<u>Planting Month</u>
		<u>Total</u>	<u>/Acre</u>	<u>/pound</u>	
Long	Rainbow	4,000	280	100	April/May

(4) Management Strategy:

- Check yearling growth; should be about 11-12 inches, adjust stocking rate as necessary.
- Expect 80% loss of yearling fish by end of season due to harvest and hooking mortality.
- Maintain about 15-20 percent of the catch at age 2+ years old, 15+ inch fish.
- Monitor angling activity and catch rates annually at opening day surveys.
- Monitor all fish species periodically by electro-fishing or netting.
- Control spiny-ray species with rotenone when trout survival is inadequate to produce an acceptable fishery.
- Consider the use of sterile, triploid rainbow trout